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•	Application No.	Applicant(s)	H*;
Notice of Allowability	Application No.	on No. Applicant(s)	
	10/686,563 Examiner	TOKUMASU ET AL. Art Unit	
	·		
	Hoan H. Tran	2852	
The MAILING DATE of this communication at All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATEN of the Office or upon petition by the applicant. See 37 CFR 1.	S IS (OR REMAINS) CLOSED in 85) or other appropriate communication is seconds.	n this application. If not included unication will be mailed in due c	d ourse. THIS
1. \boxtimes This communication is responsive to <u>amendment filed</u>	<u>03/24/2006</u> .		•
2. X The allowed claim(s) is/are 1-10,12,15-21,23 and 26-3	<u>5</u> .		
3. Acknowledgment is made of a claim for foreign priorit a) All b) Some* c) None of the: 1. Certified copies of the priority documents by complete the priority documents by the priority documents by complete the priority documents by the priority documents by complete the priority documents by complete the priority documents by the pr	nave been received. nave been received in Application of documents have been received. TE" of this communication to file DNMENT of this application. Submitted. Note the attached EXA gives reason(s) why the oath or must be submitted.	on Nod in this national stage application and a reply complying with the requal AMINER'S AMENDMENT or NO redeclaration is deficient.	uirements
(b) ☐ including changes required by the attached Exami Paper No./Mail Date	 ner's Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 Cl each sheet. Replacement sheet(s) should be labeled as such	FR 1.84(c)) should be written on the in the header according to 37 CF	ne drawings in the front (not the like 1.121(d).	back) of
6. DEPOSIT OF and/or INFORMATION about the do attached Examiner's comment regarding REQUIREME	eposit of BIOLOGICAL MATE NT FOR THE DEPOSIT OF BIO	ERIAL must be submitted. No DLOGICAL MATERIAL.	ote the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-94)	48) 6. ☐ Interview Si Paper No./	 5. Notice of Informal Patent Application (PTO-152) 6. Interview Summary (PTO-413), Paper No./Mail Date 7. Examiner's Amendment/Comment 	-152)
 Information Disclosure Statements (PTO-1449 or PTO/S Paper No./Mail Date 	·		
4. Examiner's Comment Regarding Requirement for Depo of Biological Material	sit 8. 🛭 Examiner's	Statement of Reasons for Allov	vance

9. Other ____.

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-10, 12, 15-21, 23 and 26-35 are allowed.
- 2. The following is a statement of reasons for the indication of allowable subject matter:

Claims 1-8

None of the prior art of record teaches or suggests a charging device comprising a charging member configured to be applied with a voltage wherein an alternating current voltage is superimposed on a direct current voltage to charge an image carrier; wherein a following relationship is satisfied:

$$7 \le f/v \le 17$$

where f is a frequency (Hz) of the alternating current voltage, and v is a moving speed (mm/sec) of the image carrier, and the frequency of the alternating current voltage being in a range between 2000 to 4500 Hz.

None of the prior art of record teaches or suggests an image process cartridge comprising a charging device configured to be applied with a voltage wherein an alternating current voltage is superimposed on a direct current voltage to charge an image carrier; wherein a following relationship is satisfied when the charging member charge an image forming area of the image carrier:

$$7 \le f/v \le 17$$
,

Application/Control Number: 10/686,563 Page 3

Art Unit: 2852

where f is a frequency (Hz) of the alternating current voltage, and v is a moving speed (mm/sec) of the image carrier, and a following relationship is satisfied when the charging member charge an area of the image carrier other than the image forming area of the image carrier:

$$0.5 \le f/v \le 7$$
.

Claims 20, 21, 23, 26-30 and 33-35

None of the prior art of record teaches or suggests an image forming apparatus comprising a charging device configured to be applied with a voltage wherein an alternating current voltage is superimposed on a direct current voltage to charge an image carrier; wherein a following relationship is satisfied when the charging member charge an image forming area of the image carrier:

$$7 \le f/v \le 17$$

where f is a frequency (Hz) of the alternating current voltage, and v is a moving speed (mm/sec) of the image carrier, and a following relationship is satisfied when the charging member charge an area of the image carrier other than the image forming area of the image carrier:

$$0.5 \le f/v \le 7$$
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Prior Art

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:
 - Matsumoto et al. [6,801,724] disclose an image forming apparatus.

Art Unit: 2852

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoan H. Tran whose telephone number is (571) 272-2141. The examiner can normally be reached from 8:30 AM - 5:00 PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. David Gray can be reached at (571) 272-2119. The central office fax number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

HHT

June 11, 2006

HOANTRAN PRIMARY EXAMINER